

Granulating Film Pelletizer

SGFP-150



Refer carefully to this manual before operation.

SGFP Series

■ Coding Principle

SGFP - xxx W

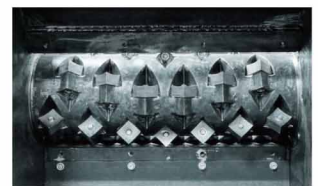
- Water Cool
- Max Throughput (kg/hr)
- Shini Granulating Film Pelletizer



SGFP-150W

■ Features

- Integrated crushing, extruding and pelletizing in one machine.
- Equip with HMI and PLC, the auger feeding, extruding and pelletizing are all controlled by inverters. The intelligent control system matches the three speeds to ensure stable extrusion and perfect pelletizing. Integrated multi-zones temperature control and simple operations.
- Special designed short screw for films and flakes recycling, plastic melt and mixed perfectly, make plastic's degradation at the minimal level.
- A swing-pod manual filter changer, filter replaced easily. Two filters, one for using and one for spare, 80 mesh.
- Equip with cyclone to separate pellets and air effectively for easy collecting.
- Temperature range: 100~250°C.



Crush Shaft



PE

Milky white

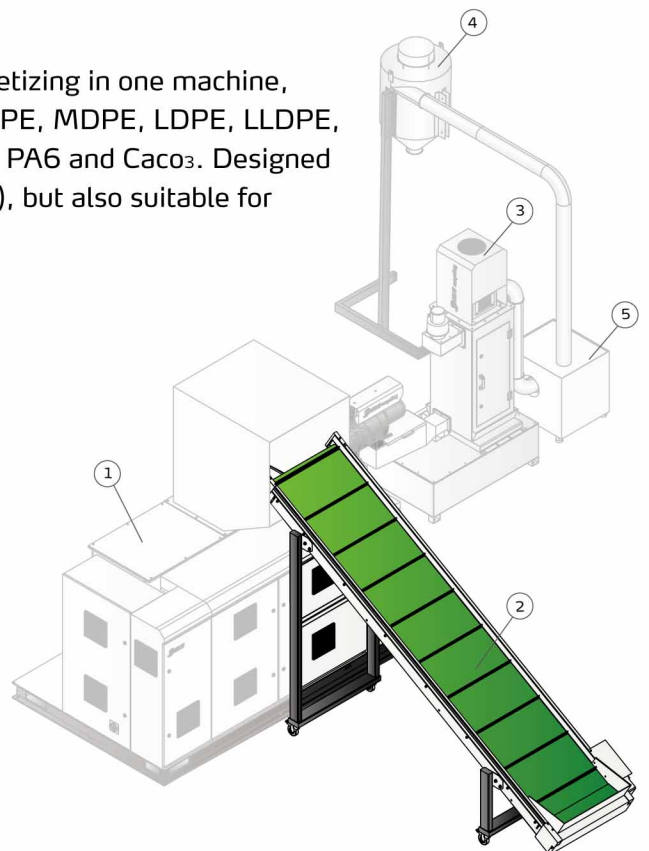
■ Application

SGFP series integrated crushing, extruding and pelletizing in one machine, suitable for recycling plastic films, materials are HDPE, MDPE, LDPE, LLDPE, and films contain small amount of metallocene, PP, PA6 and CaCO_3 . Designed for central recycling (manual or belt elevator feeding), but also suitable for online recycling trims.

■ Option

- Belt Elevator BCF-5080
BCF-5080 is an option for films feeding into crushing chamber. In this way, elevator start and stop is controlled by two level sensors which mounted on crushing chamber. Auto start when low level, auto stop when it's full.

1. SGFP-W
2. BCF-5080
3. Centrifuge
4. Cyclone
5. Blower

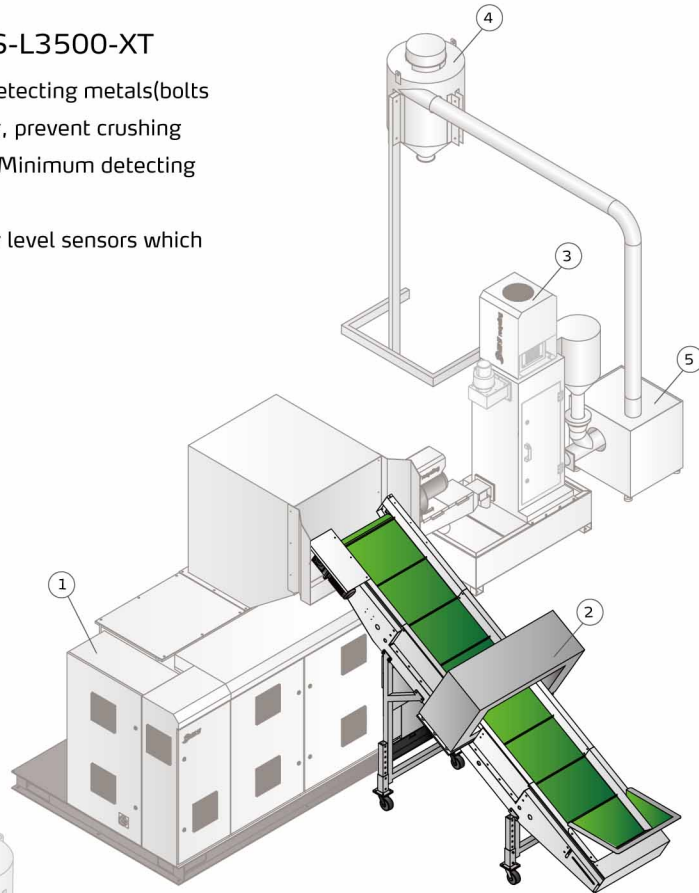


● **Metal Detect Belt Elevator PNL-MS-L3500-XT**

Upgrade with a metal detector. Special for detecting metals(bolts and nuts, etc.) hiding in films when elevating, prevent crushing blades and extruding screw from demaging. Minimum detecting size: ϕ 5mm metal ball.

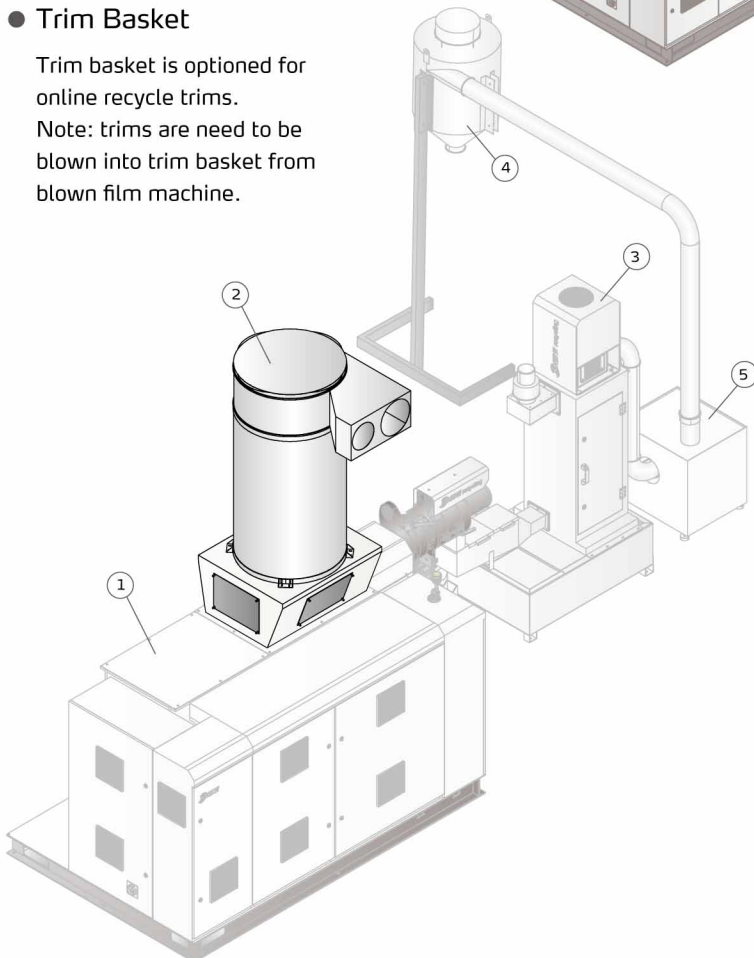
Elevator's auto start and stop is controlled by level sensors which mounted on crushing chamber.

- 1.SGFP-W
- 2.PNL-MS-L3500-XT
- 3.Centrifuge
- 4.Cyclone
- 5.Blower



● **Trim Basket**

Trim basket is optioned for online recycle trims.
Note: trims are need to be blown into trim basket from blown film machine.



- 1.SGFP-W
- 2.Trim Basket
- 3.Centrifuge
- 4.Cyclone
- 5.Blower

SGFP Series

● Roll feeder RF

With roll feeder, rolls can be hauled into crushing chamber in a stable speed, operator only needs to put rolls on the frame and set haul speed.

Roll feeder's auto start and stop is controlled by level sensors which mounted on crushing chamber.

Note: Customer needs to prepare the frame base on their rolls' size and weight.

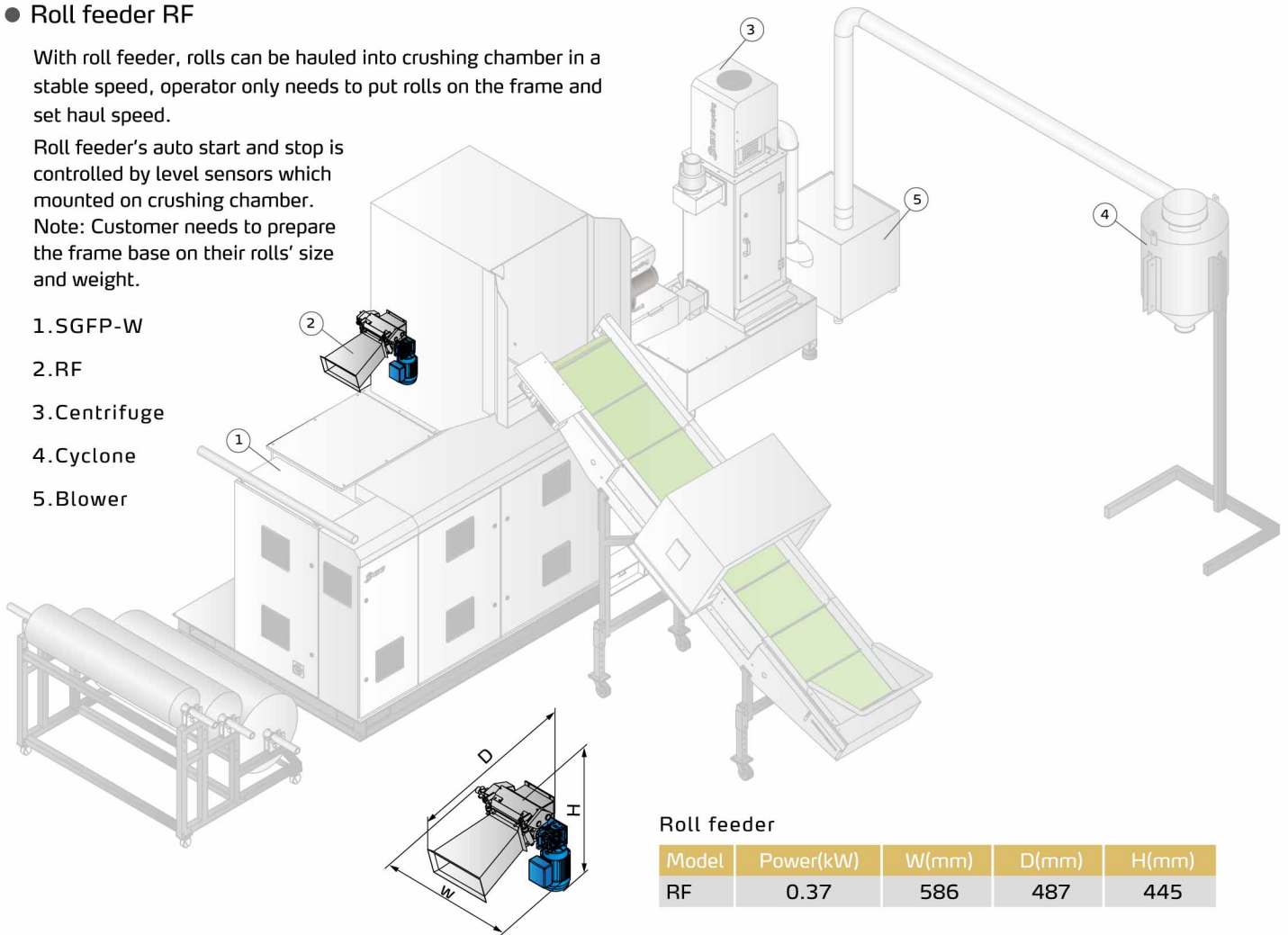
1.SGFP-W

2.RF

3.Centrifuge

4.Cyclone

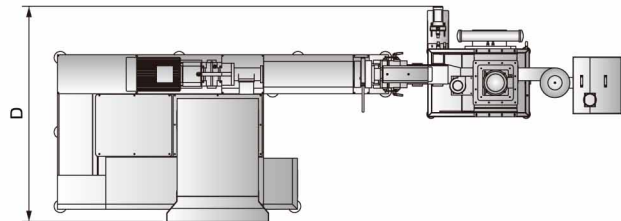
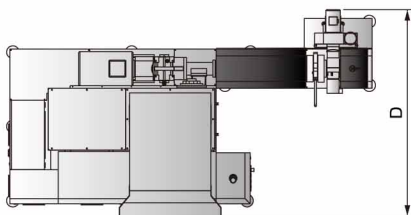
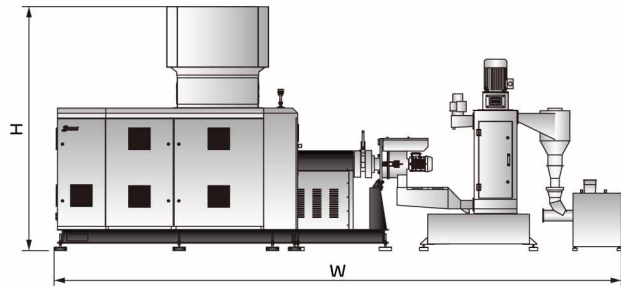
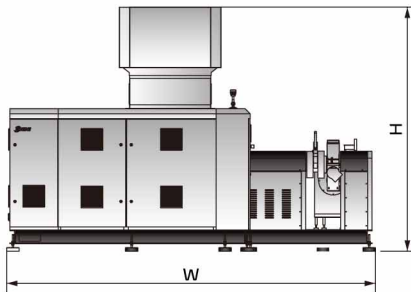
5.Blower



Roll feeder

Model	Power(kW)	W(mm)	D(mm)	H(mm)
RF	0.37	586	487	445

■ Outline Drawings



SGFP

SGFP-W

■ Specifications

Model	SGFP-120	SGFP-120W	SGFP-150W
Extruder (kW)	30	30	30
Crusher (kW)	18	18	18
Auger (kW)	3	3	3
Dicer (kW)	0.55	0.55	0.55
Blower (kW)	2.2×2	2.2	2.2
Hydraulic (kW)	2.2	2.2	2.2
Pump (kW)	/	0.75	0.75
Centrifuge (kW)	/	5.5	5.5
Heater(kW)	17	17	17
Heating zones	6	6	6
Total(kW)	67	73	81
Screw dia.(mm)	60	60	70
Noise dB(A)	85-95	85-95	85-95
Cooling	Air cool*	Water cool	Water cool
Throughput (kg/hr)	70-90	90-120	120-150
Filter changer	Manual, 2 filters, one for using one for spare, 80 mesh		
BCF-5080	○	○	○
PNL-MS-L3500-XT	○	○	○
Trim basket	○	○	○
Roll feeder	○	○	○
Dimensions	W (mm)	4347	6685
	D (mm)	2429	2536
	H (mm)	2875	2875
Weight (kg)	3985	4460	4560

注: 1) Throughput data is based on PE film test.

2) Operating noise varies depending on material and extrusion speed.

3) Machine power: 3 phase 400VAC 50Hz.

4) Recycle water in normal temp. is required for gearbox cooling. Water in 10~25°C, 50~100L/min is required for water tank cooling.

5) *Two stages air cool.

6) ○: Option, ●: Standart.

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